Caterpillars

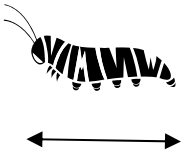
Fifth Grade Performance Event

The fifth grade class raised Monarch caterpillars. They kept the eggs in a cage at 25 ° C. Several of the eggs hatched at the end of the first day. Every day the class fed each caterpillar three leaves from the Missouri milkweed plant. The class decided that they would monitor the growth rate of the caterpillars. The students measured the caterpillars at 1:30 p.m. every day for five days.

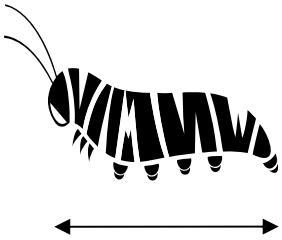
1. Measure each Monarch caterpillar.

Day 1:

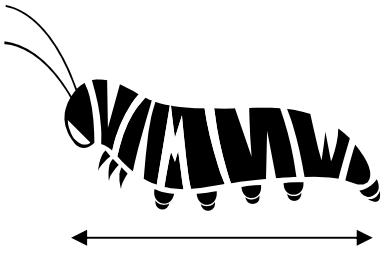
Day 2:



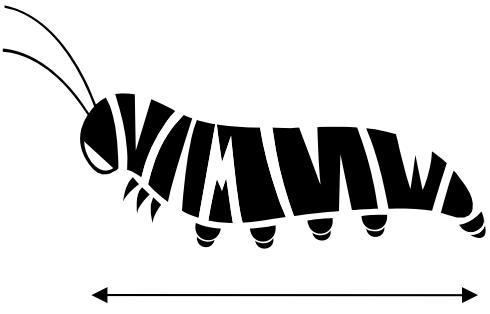
Day 3:



Day 4:



Day 5:



2. Write each measurement in the data table below:

Caterpillar Growth

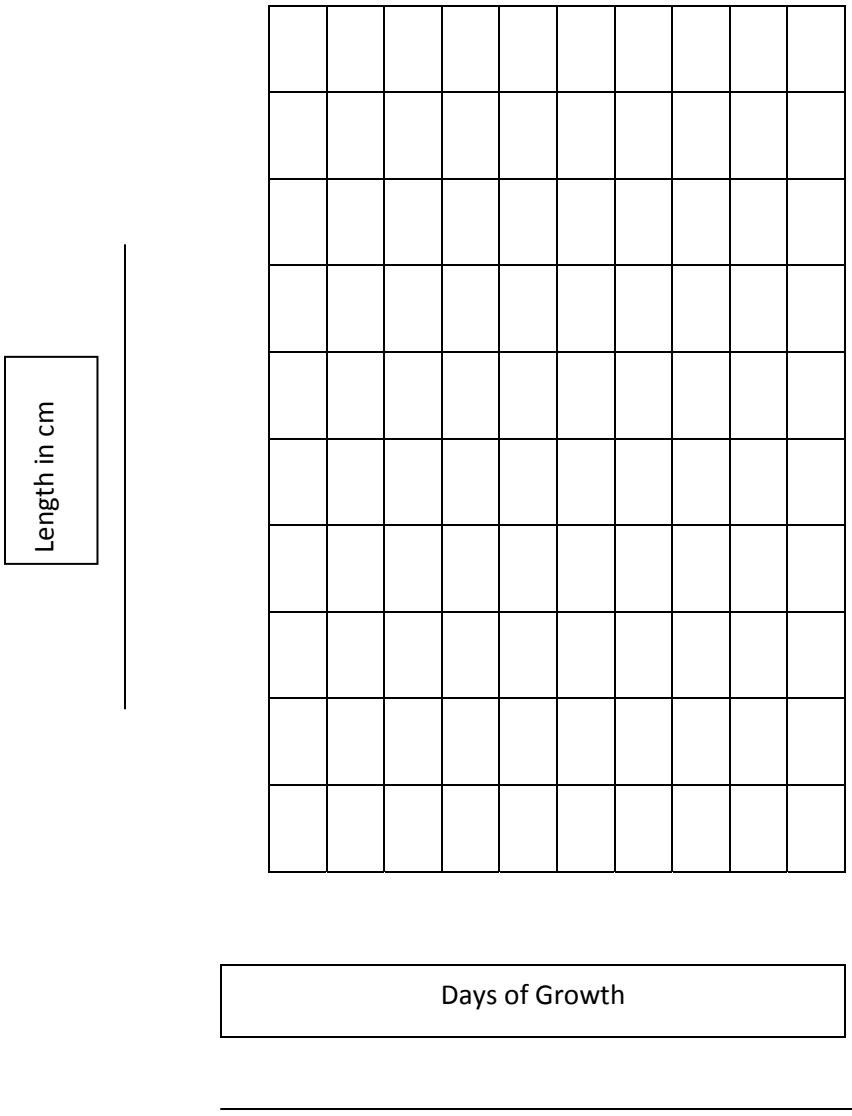
Average growth	Day1:	Day 2:	Day 3:	Day 4:	Day 5:
In cm.					

3. From Day 1 to Day 5 the caterpillar grew _____ cm.

4. On Day 4 the caterpillar was _____ cm.

5. Make a single line graph from the data collected in the data table above.

Caterpillar Growth Each Day



6. If the caterpillar continues to grow at the current rate, how long will the caterpillar be on Day 6?

The class wants to know if temperature affects the growth rate of the caterpillars.

7. If the students changed the temperature of the cage to 10 ° C and feed the caterpillars a different amount of Mulberry and Milkweed leaves each day, would this be a fair test?

_____

Explain your reasoning

_____

_____

_____

_____

8. What is the change in temperature from the first experiment to the new experiment?

_____

9. Think of a new experiment you could do that uses caterpillars. Write a testable question for the new experiment.

_____

_____

_____

_____

10. Write a hypothesis for your testable question.

_____

_____

_____

_____

11. Put these steps of an experiment in the correct order.

Collect, record data

Write a hypothesis

Write a conclusion

Write a testable question

Do the experiment

The first one has been done for you.

1. Write a testable question
2. _____
3. _____
4. _____
5. _____